

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICANT: Burrows
 SERIAL NO.: 09/309,361 CONFIRMATION No: 7398
 FILING DATE: May 11, 1999
 TITLE: Method for Pressurized Annealing of Lithium Niobate and Resulting
 Lithium Niobate Structures
 PATENT NO.: 6,770,132 *b1* Certificate
 ISSUED: Aug 3, 2004 JUN 20 2005
 EXAMINER: Lan Vinh of Correction
 ART UNIT: 1765

CERTIFICATE OF MAILING

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Date: June 14, 2005 Name: *P Sherman*
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TRANSMITTAL FOR CERTIFICATE OF CORRECTION

We enclose, pursuant to the provisions of 37 C.F.R. §1.322, a Certificate of
 Correction for United States Patent No. 6,770,132. Please make the Certificate of
 Correction and the statements herein of record.

The corrections made to the above-identified United States Patent in the Certificate
 of Correction filed herewith are to correct mistakes which are of a minor character
 according to 35 U.S.C. §254 and 37 C.F.R. §1.322. The proposed corrections do not

constitute such changes in the patent as would constitute new matter or would require re-examination.

37 C.F.R. §1.322 Corrections

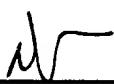
Please see attached Certificate of Correction.

No Fee Due

It is believed that no fee is required for filing the above-noted document. In the event any fee is required for filing of this Certificate of Correction, the Assistant Commissioner is hereby authorized to charge the fee to our Deposit Account No. 50-1698.

Respectfully submitted,
THELEN REID & PRIEST LLP

Dated: June 9, 2005



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JUN 22 2005

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTIONPATENT NO : 6,770,132 *B1*

DATED : Aug 3, 2004

INVENTOR(S) : Burrows

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

- 1) In section 56 of the cover page by US patent 4,196,963 remove the ***
- 2) In section 57 of the cover page, after ramp down rate., insert --In another aspect of the invention a lithium niobate structure such as an optical waveguide or an optical modulator comprises an optically transparent portion that is substantially void of free protons.--

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PATENT NO. 6,770,132 *B1*

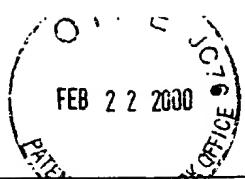
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CALT-2806

ABSTRACT

In one aspect of the invention, a method for pressurized annealing of lithium niobate or lithium tantalate structures, such as optical modulators and optical wave guides, comprises pressurizing an oxygen atmosphere containing a lithium niobate or lithium tantalate structure above normal atmospheric pressure, heating the structure to a temperature ranging from about 150 degrees Celsius to about 1000 degrees Celsius, maintaining pressure and temperature to effect ion exchange or to relieve stress, and cooling the structure to an ambient temperature at an appropriate ramp down rate.

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Correction 2:

In another aspect of the invention a lithium niobate structure such as an optical waveguide or an optical modulator comprises an optically transparent portion that is substantially void of free protons.